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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/676,850	09/30/2003	Nicholas M. Ryan	2222.5440000	3054	
20210 DAVIS & BUJ	7590 10/30/2007 OLD PLLC		EXAMINER		
112 PLEASANT STREET			KLIMACH, PAULA W		
CONCORD, N	H 03301		ART UNIT	PAPER NUMBER	
			2135		
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			10/30/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)	<b>H</b>
•	10/676,850	RYAN, NICHOLAS M.	
Office Action Summary	Examiner	Art Unit	_
	Paula W. Klimach	2135	
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet wi	th the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING  - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory perior  - Failure to reply within the set or extended period for reply will, by state that the provision of the mail of the provision of the mail of the provision of the mail of the provision of the prov	DATE OF THIS COMMUNIC 1.136(a). In no event, however, may a re- od will apply and will expire SIX (6) MON- ute, cause the application to become AB	CATION.  Poply be timely filed  IHS from the mailing date of this communication  ANDONED (35 U.S.C. § 133).	
Status			
<ul> <li>1) ⊠ Responsive to communication(s) filed on 21</li> <li>2a) ☐ This action is FINAL. 2b) ⊠ The 3) ☐ Since this application is in condition for allow</li> </ul>	nis action is non-final.	ers, prosecution as to the merits is	5
closed in accordance with the practice under			
Disposition of Claims			
4)  Claim(s) 1-22 and 26-29 is/are pending in the 4a) Of the above claim(s) is/are withdrest is/are allowed.  5)  Claim(s) is/are allowed.  6)  Claim(s) 1-22 and 26-29 is/are rejected.  7)  Claim(s) is/are objected to.  8)  Claim(s) are subject to restriction and	rawn from consideration.		
Application Papers			
9) The specification is objected to by the Examir 10) The drawing(s) filed on is/are: a) acceptable and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examiration.	ccepted or b) objected to be drawing(s) be held in abeyand oction is required if the drawing(s)	ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.121(d	l <b>)</b> .
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of:  1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the pri application from the International Bures * See the attached detailed Office action for a list	nts have been received.  nts have been received in Apority documents have been and (PCT Rule 17.2(a)).	pplication No ecceived in this National Stage	
Attachment(s)  Notice of References Cited (PTO-892)  Notice of Draftsperson's Patent Drawing Review (PTO-948)  Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date		/Mail Date ormal Patent Application	

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#### **DETAILED ACTION**

### Response to Amendment

This office action is in response to amendment filed on 08/21/07. The amendment filed on 08/21/07 have been entered and made of record.

## Response to Arguments

Applicant's arguments filed 08/21/07 have been fully considered.

The newly cited art, Singhal, teaches the limitations that the applicant argues are missing from the previous rejection.

The applicant pointed out that the reference, Vainstein, is disqualified as a reference.

This reference has been replaced.

# Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 6-9 and 23-29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Batten-Carew et al (6,603,857 B1) in view of Singhal et al (6,851,050 B2).

In reference to claims 6, 26, and 29 Batten-Carew discloses a method and apparatus for controlling release of time-sensitive information is accomplished by a server that establishes access information for a specific future time as passed (abstract). The method includes

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identifying an electronic document to be secured, the electronic document having at least a data portion that contains data (column 2 lines 59-67); obtaining a time-based access key (column 3 lines 24-50); securing the electronic document through use of the time-based access key to produce a secured electronic document (column 3 lines 49-52); and storing the secured electronic document (column 50-52).

Batten-Carew does not disclose determining whether a time-based access key is already available for a predetermined time, otherwise generating a time-based key for the predetermined time.

Singhal discloses a method, system, and computer program for a secure access techniques to provide user-centric authentication and allow policy-driven packet filtering (abstract). The method a system include determining whether a time-based access key (session key) is already available for a predetermined time, otherwise generating a time-based key for the predetermined time (column 18 lines 30-60).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to create a key when there is no time-based key (session key) as in the system of Singhal in the system of Batten-Crew. One of ordinary skill in the art would have been motivated to do this because when only one session key is created for a client server connection, the session key may be used to represent the particular connection.

In reference to claims 7 and 27, Batten-Carew discloses a method wherein the time-based access key has an access time associated therewith (column 3 lines 4-23).

In reference to claims 8 and 28 Batten-Carew discloses a method wherein said method further comprises: storing the time-based access key at a remote key store, and wherein the

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time-based access key is subsequently retrievable from the remote key store only if the current time equals or exceeds the access time associated with the time-based access key (Fig. 1 and Fig. 3).

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In reference to claim 9 Batten-Carew discloses a method wherein said method is performed on a client machine that operatively receives the time-based access key from the remote key store over a network (Fig. 1 and column 3 lines 32-35).

Claims 10-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Batten-Carew in view of Evans (2002/0099947 A1) and further in view of Singhal.

In reference to claim 10 Batten-Carew discloses a method and apparatus for controlling release of time-sensitive information is accomplished by a server that establishes access information for a specific future time as passed (abstract). The method comprising: identifying an electronic document to be secured, the electronic document having at least a data portion that contains data (column 2 lines 59-67); obtaining a document key (column 3 lines 30-35); obtaining a time-based access key (column 3 lines 34-39); forming a secured electronic document from at least the encrypted data portion and the encrypted document key (column 3 lines 49-52); and storing the secured electronic document (column 3 lines 50-52).

Although Batten-Crew discloses obtaining a time-based key, Batten-Carew does not disclose encrypting the data portion of the electronic document using the document key to produce an encrypted data portion; encrypting the document key using the time-based access key to produce an encrypted document key.

Evans discloses encrypting the data portion of the electronic document using the document key to produce an encrypted data portion (paragraph 0025)

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to encrypt the data portion of the electronic document using the document key as in Evans using the time-based access key of Batten-Crew. One of ordinary skill in the art would have been motivated to do this because the data would be stored as an encrypted document and this would ensure the content would be protected (Evans paragraph 0022).

Batten-Carew does not disclose determining whether a time-based access key is already available for a predetermined time, otherwise generating a time-based key for the predetermined time.

Singhal discloses a method, system, and computer program for a secure access techniques to provide user-centric authentication and allow policy-driven packet filtering (abstract). The method a system include determining whether a time-based access key (session key) is already available for a predetermined time, otherwise generating a time-based key for the predetermined time (column 18 lines 30-60).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to create a key when there is no time-based key (session key) as in the system of Singhal in the system of Batten-Crew. One of ordinary skill in the art would have been motivated to do this because when only one session key is created for a client server connection, the session key may be used to represent the particular connection.

In reference to claim 11 Batten-Carew discloses a method wherein the time-based access key is a public time-based access key (column 4 lines 56-65).

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In reference to claim 12 Batten-Carew discloses a method wherein the time-based access key has an access time associated therewith (Fig. 2).

In reference to claim 13 Batten-Carew discloses a method wherein the time-based access key is available from a remote key store only if the current time equals or exceeds the access time associated with the time-based access key (Fig. 3).

In reference to claim 14 Batten-Carew discloses a method wherein the access time is a day of a year, and the time-based access keys are unique for each day of the year (Fig. 2).

In reference to claim 15 Batten-Carew discloses a method wherein said method is performed on a client machine that operatively receives the time-based access key from the remote key store over a network (Fig. 1 and column 3 lines 32-35).

Claims 16-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Evans in view of Batten-Carew.

In reference to claim 16 Mulder discloses a method fore secure electronic information exchange between a sender and a recipient (abstract). The system performs a method that includes obtaining an encrypted document key from the header portion of the secured electronic document (paragraph 0025); decrypting an encrypted data portion of the secured electronic document using the document key to produce a data portion (paragraph 0025); and supplying the data portion to the requester (paragraph 0026).

Evans does not disclose obtaining a time-based access key and decrypting the encrypted document key using the time-based access key to produce a document key.

Batten-Carew discloses a method and apparatus for controlling release of time-sensitive information is accomplished by a server that establishes access information for a specific future time as passed (abstract). The method of Batten-Carew includes obtaining a time-based access key (Fig. 3) and decrypting the encrypted document key using the time-based access key to produce a document key (column 4 lines 57-65).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to use the time-based key of Batten-Carew in the system of Evans. One of ordinary skill in the art would have been motivated to do this because the method of Batten-Carew would allow time-sensitive information to be released at any time and accessed only at a specific future time based on the release of access information relating to the specific future time (column 2 lines 29-33).

In reference to claim 17 Evans discloses a method wherein the time-based access key (document keys) is identified by an indicator within a header portion of the secured electronic document (Fig. 2).

In reference to claim 18 Evans does not discloses a method wherein the time-based access key is a private time-based access key

Batten-Carew discloses a method wherein the time-based access key is a private time-based access key (column 3 lines 57-64).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to use the time-based key of Batten-Carew in the system of Evans. One of ordinary skill in the art would have been motivated to do this because the method of Batten-Carew would allow time-sensitive information to be released at any time and accessed only at a

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specific future time based on the release of access information relating to the specific future time (column 2 lines 29-33).

In reference to claim 19 Evans does not disclose a method wherein the time-based access key being obtained is acquired from a server.

Batten-Carew does not disclose a method wherein the time-based access key being obtained is acquired from a server (Fig. 1).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to use the time-based key of Batten-Carew in the system of Evans. One of ordinary skill in the art would have been motivated to do this because the method of Batten-Carew would allow time-sensitive information to be released at any time and accessed only at a specific future time based on the release of access information relating to the specific future time (column 2 lines 29-33).

In reference to claim 20 Evans does not disclose a system wherein said obtaining of the time-based access key is dependent on the current time..

Batten-Carew discloses a system wherein said obtaining of the time-based access key is dependent on the current time (Fig. 3).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to use the time-based key of Batten-Carew in the system of Evans. One of ordinary skill in the art would have been motivated to do this because the method of Batten-Carew would allow time-sensitive information to be released at any time and accessed only at a specific future time based on the release of access information relating to the specific future time (column 2 lines 29-33).

In reference to claim 21 Evans does not disclose a system wherein the time-based access key is associated with an access time, and wherein said obtaining of the time-based access key is permitted only when the current time is greater than or equal to the access time.

Batten-Carew discloses the time-based access key is associated with an access time, and wherein said obtaining of the time-based access key is permitted only when the current time is greater than or equal to the access time (Fig. 3).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to use the time-based key of Batten-Carew in the system of Evans. One of ordinary skill in the art would have been motivated to do this because the method of Batten-Carew would allow time-sensitive information to be released at any time and accessed only at a specific future time based on the release of access information relating to the specific future time (column 2 lines 29-33).

In reference to claim 22 Evans does not disclose a system wherein, if permitted, said obtaining obtains the time-based access key being obtained from a server.

Batten-Carew discloses a method wherein, if permitted, said obtaining obtains the timebased access key being obtained from a server (Fig. 3).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to use the time-based key of Batten-Carew in the system of Evans. One of ordinary skill in the art would have been motivated to do this because the method of Batten-Carew would allow time-sensitive information to be released at any time and accessed only at a specific future time based on the release of access information relating to the specific future time (column 2 lines 29-33).

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Claims 1-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mulder et al (2002/0172367) in view of Batten-Carew.

In reference to claim 1 Mulder discloses a method fore secure electronic information exchange between a sender and a recipient (abstract). The system of Mulder includes a key store (the combination of public key certificates and private key storage) that stores a plurality of cryptographic key pairs, each of the cryptographic key pairs includes a public key and a private key (paragraph 0022); and an access manager (registration authority) operatively connected to said key store (paragraph 0022), said access manager determines whether the private key of the at least one of the cryptographic key pairs is permitted to be provided to a requester, the user is authenticated (paragraph 0022);

Mulder does not disclose a cryptographic key that pertains to a predetermined time.

Batten-Carew discloses a method and apparatus for controlling release of time-sensitive information is accomplished by a server that establishes access information for a specific future time as passed (abstract). The method includes at least one of the cryptographic key pairs pertaining to a predetermined time (column 3 lines 40-47); key pairs pertaining to the predetermined time is permitted to be provided to a requester based on a current time (Fig. 3), wherein the requester requires the private key of the at least one of the cryptographic key pairs pertaining to the predetermined time to access a secured electronic file (column 3 lines 48-55), and wherein the secured electronic file was previously secured using the public key of the at least one of the cryptographic key pairs pertaining to the predetermined time (Fig. 1).

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At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to use the time-based key of Batten-Carew in the system of Mulder. One of ordinary skill in the art would have been motivated to do this because the method of Batten-Carew would allow time-sensitive information to be released at any time and accessed only at a specific future time based on the release of access information relating to the specific future time (column 2 lines 29-33).

In reference to claim 2 Mulder does not teach an access manager only provides the private key of the at least one of the cryptographic key pairs pertaining to the predetermined time to the requester if the predetermined time is greater than or equal to the current time.

Batten-Carew discloses a system, wherein said access manager only provides the private key of the at least one of the cryptographic key pairs pertaining to the predetermined time to the requester if the predetermined time is greater than or equal to the current time (Fig. 3).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to use the time-based key of Batten-Carew in the system of Mulder. One of ordinary skill in the art would have been motivated to do this because the method of Batten-Carew would allow time-sensitive information to be released at any time and accessed only at a specific future time based on the release of access information relating to the specific future time (column 2 lines 29-33).

In reference to claim 3 Mulder discloses a system wherein the requestor is a client module that operatively connects to said access manager over a network (paragraph 0025). A user receives email on a client device.

In reference to claim 4 Mulder does not discloses a system wherein said document security system further comprises: at least one client module, said client module assists a user in selecting the predetermined time, and said client module secures the electronic file using the public key of the at least one of the cryptographic key pairs pertaining to the predetermined time so as to provide a time-based access restriction to the electronic file.

Batten-Carew discloses a system wherein said document security system further comprises: at least one client module, said client module assists a user in selecting the predetermined time, and said client module secures the electronic file using the public key of the at least one of the cryptographic key pairs pertaining to the predetermined time so as to provide a time-based access restriction to the electronic file (Fig. 4).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to use the time-based key of Batten-Carew in the system of Mulder. One of ordinary skill in the art would have been motivated to do this because the method of Batten-Carew would allow time-sensitive information to be released at any time and accessed only at a specific future time based on the release of access information relating to the specific future time (column 2 lines 29-33).

In reference of claim 5 Mulder does not disclose a cryptographic key that pertains to a predetermined time.

Batten-Carew discloses a system wherein said client module further assists in unsecuring the secured electronic file by acquiring the private key of the at least one of the cryptographic key pairs that pertaining to the predetermined time from said key store, and then unsecuring the secured electronic file using the private key of the at least one of the cryptographic key pairs that pertaining to the predetermined time (Fig. 3 and Fig. 4).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to use the time-based key of Batten-Carew in the system of Mulder. One of ordinary skill in the art would have been motivated to do this because the method of Batten-Carew would allow time-sensitive information to be released at any time and accessed only at a specific future time based on the release of access information relating to the specific future time (column 2 lines 29-33).

#### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Time-lock Puzzle and Time-release Crypto Rivest, Shamir, Wagner 1996

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paula W. Klimach whose telephone number is (571) 272-3854. The examiner can normally be reached on Mon to Thr 9:30 a.m to 5:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Vu can be reached on (571) 272-3859. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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PWK

Saturday, October 27, 2007

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